|  | Index of Claims |          |              |           |          |          |           |           |           |          |              |          |          | Αþ       | Application/Control No. |          |          |                |              |              |          |                        |     |          | Applicant(s)/Patent under Reexamination |                 |              |             |              |              |    |          |           |   |  |
|--|-----------------|----------|--------------|-----------|----------|----------|-----------|-----------|-----------|----------|--------------|----------|----------|----------|-------------------------|----------|----------|----------------|--------------|--------------|----------|------------------------|-----|----------|---|-----------------|--------------|-------------|--------------|--------------|----|----------|-----------|---|--|
|  |                 | Rejected |              |           |          |          |           |           |           |          |              |          |          | 09       | /82                     | 23.5     | 90:      | 5              |              |              |          |                        |     |          |   |                 |              |             |              |              |    |          |           |   |  |
| √ Rejected — (Through numera Cancelled |                 |          |              |           |          |          |           |           |           |          |              |          | kaminer  |          |                         |          |          |                |              |              |          | MILLER ET AL. Art Unit |     |          |   |                 |              |             |              |              |    |          |           |   |  |
|  |                 |          |              |           |          |          |           |           |           |          |              |          |          |          |                         |          | R        | างก            | nnr          | hr           | s r      | Dea                    | n   |          |   |                 | 2684         |             |              |              |    |          |           |   |  |
|  |                 | -        | -            |           |          |          |           |           |           |          |              |          |          |          |                         |          | 110      | 4 <b>y</b> 1 1 | 101          | IU           | <u> </u> | Jua                    | ''  |          |   |                 | 20           | <del></del> |              |              |    |          |           |   |  |
|  | (Through numer  |          |              |           |          |          |           |           |           |          |              |          | era      | ıl)      | $\neg$                  | Γ        | Τ        | Non-Elected    |              |              |          |                        | П   | A        |   |                 |              |             |              |              |    |          |           |   |  |
|  | √   Rejected    |          |              |           |          |          |           |           | Cancelled |          |              |          |          |          | ı                       |          |          | ŀ              | N            | NO           | n-EI     | ect                    | ea  |          | Α                                       | Appeal          |              |             |              |              |    |          |           |   |  |
| = Allowed                              |                 |          |              |           |          |          |           |           |           |          | + Restricted |          |          |          |                         | 1        |          |                |              | ı            | Inte     | erfe                   | ren | ce       |   | 0               |              | Ωhi         | ect          | ed           |    |          |           |   |  |
|  |                 |          |              |           |          |          |           |           |           | لِــٰ    |              |          |          |          |                         |          |          | L              |              |              |          | ]                      |     |          |   | jected          |              |             |              |              |    |          |           |   |  |
| 1                                      | Cla             |          |              |           | C        | ate      | <u> </u>  |           |           |          | Claim        |          |          |          |                         |          | ate      | te             |              |              | Cla      |                        | aim | <u> </u> | Date                                    |                 |              |             |              |              |    |          |           |   |  |
|  |                 |          | 14           |           |          |          |           | ĺ         |           |          |              |          | Ī        |          |                         | П        | T        |                |              |              |          |                        |     |          |   | П               | T            |             | Τ            |              |    |          |           |   |  |
|  | Final           | igi      | 1/ /3        |           |          |          |           |           | -         | İ        | ŀ            | E        | 5        | Original |                         |          |          |                |              |              |          |                        |     | Final    | Original                                |                 |              |             |              |              |    |          |           |   |  |
|  | -               | اة       | $\gamma$     |           |          |          |           |           |           |          |              | "        | -        | ō        |                         |          | -        |                |              |              |          |                        |     |          | ō                                       |                 |              |             |              |              |    |          |           |   |  |
|  |                 |          | V            |           |          | $\Box$   |           |           |           |          | $\Box$       |          |          | 51       |                         | _        | $\Box$   | $\blacksquare$ | $\bot$       | $\downarrow$ | 1        | П                      |     |          | 101                                     |                 | $\perp$      | $\perp$     | Ţ            |              |    | П        |           |   |  |
|  |                 |          | Ť            |           | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$     | -        | $\dashv$ | 52<br>53 | $\dashv$                | $\dashv$ | $\dashv$ | +              | +            | +            | +        | +                      |     |          | 102<br>103                              | $\vdash$        | +            | +           | ╁            | +            | ╁  | H        | ᅴ         | • |  |
|  |                 | 4        |              |           |          |          |           |           |           |          | ゴ            |          |          | 54       |                         |          |          | $\top$         | 士            | 1            |          |                        |     |          | 104                                     |                 | I            |             | $\dagger$    |              |    |          |           |   |  |
|  |                 |          | 4            |           | _        | _        |           |           | _         |          | 4            |          | 4        | 55       | $\Box$                  |          | 4        | 4              | $\downarrow$ | 4            | $\perp$  | $\sqcup$               |     |          | 105                                     | $\sqcup$        | 4            | $\perp$     | $\perp$      | 1            |    |          |           |   |  |
|  |                 |          | +            |           | -        | ᅱ        | $\dashv$  | +         | -         | -        | $\dashv$     | -        |          | 56<br>57 |                         | -        | +        | +              | +            | +            | +        | ╁┤                     |     |          | 106<br>107                              | $\vdash$        | +            | +           | ╁            | ╫            | +  | Н        | $\dashv$  |   |  |
|  |                 | 8        | t            |           |          |          |           |           |           |          |              |          |          | 58       |                         |          |          |                |              | $\top$       |          |                        |     |          | 108                                     | 世               | I            |             | 1            |              |    |          |           |   |  |
|  |                 |          |              |           | $\dashv$ | _        | _         | $\dashv$  | 4         |          | 4            | $\vdash$ | 4        | 59<br>60 | $\sqcup$                | $\perp$  | 4        | $\perp$        | +            | 4            | +        | $\square$              |     |          | 109                                     | $\vdash$        | +            | $\bot$      | $\downarrow$ | +            | _  | Ш        | $\dashv$  | • |  |
|  |                 |          | _            | $\dashv$  |          | $\dashv$ | -         | $\dashv$  |           |          | $\dashv$     |          | $\dashv$ | 61       | $\vdash$                | $\dashv$ | +        | +              | +            | +            | +        | +                      |     |          | 110                                     | $\vdash$        | +            | +           | +            | +            | +  | $\vdash$ | $\vdash$  |   |  |
|  |                 | 12       | T            |           |          |          |           |           |           |          |              |          |          | 62       |                         |          |          | 1              | 1            | 1            |          |                        |     |          | 112                                     |                 | 1            |             |              |              |    |          |           |   |  |
|  |                 |          | $\mathbb{H}$ |           | 4        | _        | _         | $\dashv$  | $\dashv$  |          | $\dashv$     | $\vdash$ | 4        | 63<br>64 | Н                       | _        | $\dashv$ | +              | +            | +            | +        | +                      |     |          | 113<br>114                              | $\vdash$        | +            | _           | +            | +-           | ┿  | Ш        | Ц         |   |  |
|  |                 | 15       | +            |           | +        | $\dashv$ | -         | $\dashv$  | $\dashv$  | $\dashv$ |              | $\vdash$ | $\dashv$ | 65       | $\Box$                  |          | $\dashv$ | $\dagger$      | +            | +            | +        | +                      |     |          | 115                                     | H               | +            | 十           | +            | +            | +  | Н        | _         |   |  |
|  |                 | 16       | I            |           | $\Box$   |          |           |           |           |          |              |          |          | 66       |                         |          | $\Box$   |                |              |              |          | $\perp$                |     |          | 116                                     |                 |              |             |              | 工            |    |          |           |   |  |
|  |                 |          | 4            |           |          | _        | $\dashv$  | $\dashv$  | -         | _        |              |          | $\dashv$ | 67<br>68 | $\vdash$                | $\dashv$ | $\dashv$ | _              | +            | +            | +        | -                      |     |          | 117<br>118                              |                 | +            |             | +            | +            | -  | -        |           |   |  |
|  |                 |          | V            | Н         | _        |          | $\dashv$  | $\dashv$  | ,         |          | $\neg$       | -        | $\dashv$ | 69       |                         |          | $\dashv$ | 十              | $^{+}$       | +            | +        | +                      | 1 1 |          | 119                                     |                 | $\dagger$    | +           | $\dagger$    | +            | +  | Н        |           |   |  |
|  |                 |          |              |           |          |          |           |           |           |          |              |          |          | 70       |                         |          | $\Box$   | $\Box$         | 4            | 4            |          | $\perp$                |     |          | 120                                     |                 | 1            |             |              |              |    |          |           |   |  |
|  |                 |          | <u>/</u>     | Н         |          |          | -         | -         | _         |          | -            | -        | $\dashv$ | 71<br>72 |                         | $\dashv$ | +        | +              | +            | +            | +        | +-                     |     |          | 121<br>122                              | $\vdash$        | +            | +           | ╀            | +            | +  | H        | $\dashv$  |   |  |
|  |                 | 3        |              |           |          |          |           | T         |           |          |              | E        |          | 73       |                         |          |          |                |              |              |          |                        |     |          | 123                                     |                 | $\top$       |             | $\pm$        |              | _  |          |           |   |  |
|  |                 |          | 7            |           |          |          |           |           |           |          |              |          | $\Box$   | 74       |                         |          | _        | 4              | 4            | 4            | $\bot$   | $\perp$                |     |          | 124                                     |                 | 1            |             | $\bot$       | 4            |    |          |           |   |  |
|  |                 | 25<br>26 | V            | $\exists$ | -        | $\dashv$ | -         | -         | $\dashv$  | $\dashv$ |              | <u> </u> | -        | 75<br>76 | $\square$               | -        | $\dashv$ | +              | -            | +            | +        | +                      |     |          | 125<br>126                              | $\vdash$        | +            | -           | ╁            | <del> </del> | +- | $\vdash$ | $\dashv$  |   |  |
|  |                 | 27       |              |           |          |          |           |           |           |          |              |          |          | 77       |                         |          |          |                |              |              |          |                        |     |          | 127                                     |                 |              |             |              |              |    |          |           |   |  |
|  |                 |          |              |           |          | _        | .         | _         |           |          |              | -        | _        | 78<br>79 | $\sqcup$                |          | -        | $\dashv$       | _            | +            | +        |                        |     |          | 128<br>129                              | $\vdash \vdash$ | +            | -           | ╀            | -            | -  |          | Н         |   |  |
|  |                 |          |              |           |          | $\dashv$ | $\dashv$  | +         |           | $\dashv$ |              | $\vdash$ | -        | 80       | H                       | $\dashv$ | $\dashv$ | $\dashv$       | +            | +            |          | +-                     |     |          | 130                                     | $\Box$          | +            | +           | ╁            | +            | ╁  | $\vdash$ | -         |   |  |
| •                                      |                 | 31       |              |           |          |          |           |           |           |          |              |          |          | 81       |                         |          | $\Box$   | $\Box$         |              | $\perp$      | 工        |                        |     |          | 131                                     |                 | 1            |             | I            |              | I  |          |           |   |  |
|  |                 |          |              |           |          |          | 4         | -         |           |          |              | -        | -        | 82<br>83 | $\vdash \vdash$         |          | +        | $\dashv$       | -            | +            | -        | -                      |     |          | 132<br>133                              | $\vdash$        | +            | +           | +            |              |    | H        |           |   |  |
|  |                 |          |              |           | $\dashv$ | $\dashv$ | $\dashv$  | 1         |           | $\dashv$ |              |          | $\dashv$ | 84       | $\vdash$                | $\dashv$ | $\dashv$ | 十              | +            | +            | +        | +                      | Ì   |          | 134                                     | +               | $\dagger$    | +           | +            | -            | +  | $\vdash$ |           |   |  |
|  |                 |          |              |           |          |          |           |           |           |          |              |          | $\Box$   | 85       |                         | $\Box$   |          |                | 1            |              |          |                        |     |          | 135                                     |                 | $\downarrow$ | $\perp$     | Ţ            | 1            |    |          |           |   |  |
|  |                 | 36       | _            | _         |          |          | -         | $\dashv$  |           | $\dashv$ | _            | -        | $\dashv$ | 86<br>87 | -                       | $\dashv$ | $\dashv$ | +              | +            | +            | +        | +                      |     |          | 136<br>137                              | $\vdash \vdash$ | +            | +           | +-           | +-           | +- | -        |           |   |  |
|  |                 | 38       |              |           |          | _        |           | _         | _         |          |              |          | _        | 88       |                         |          | _        | $\exists$      | $\exists$    | $\perp$      | 士        |                        |     |          | 138                                     |                 | +            | +           | +            | +            | +  |          | $\exists$ |   |  |
|  |                 | 39       |              |           |          | $\Box$   | $\exists$ | $\exists$ |           |          | $\exists$    |          |          | 89       |                         | 1        | 1        | 7              | 1            | 1            | Ţ        |                        |     |          | 139                                     | П               | 7            | $\top$      | T            | Ţ            |    |          |           |   |  |
|  |                 |          |              | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  | -         | $\dashv$ | $\dashv$     | -        | -        | 90<br>91 | $\vdash \vdash$         | $\dashv$ | $\dashv$ | +              | +            | +            | +        | +                      |     |          | 140<br>141                              | $\vdash$        | +            | +           | ╀            | +            | +  | $\vdash$ | Н         |   |  |
|  |                 | 42       |              |           |          |          |           |           |           |          |              |          |          | 92       |                         |          |          | 士              | _            | $\perp$      |          |                        |     |          | 142                                     |                 | 1            | 士           | 士            | 士            | İ  |          |           |   |  |
|  |                 | 43       |              |           |          |          | $\dashv$  | $\exists$ |           |          | 4            |          | _        | 93       | Ц                       | $\Box$   | 4        | 4              | $\bot$       | 4            | Ţ        | +                      |     |          | 143                                     |                 | 4            | _[          | Ţ            | L            | F  | $\Box$   | $\Box$    |   |  |
|  |                 | 44<br>45 | -            | $\vdash$  | $\dashv$ |          |           | $\dashv$  | $\dashv$  | $\vdash$ | $\dashv$     |          | +        | 94<br>95 | $\vdash$                | $\dashv$ | $\dashv$ | +              | +            | +            | +        | +                      |     |          | 144<br>145                              | ++              | +            | +           | +            | +            | +  | $\vdash$ | $\vdash$  |   |  |
|  |                 | 46       |              |           |          |          | コ         |           |           |          | $\Box$       |          |          | 96       |                         |          | $\Box$   | $\downarrow$   | $\downarrow$ | 1            | $\bot$   | $\perp$                | 1   |          | 146                                     |                 | $\perp$      | 丰           | 上            | 丰            |    |          |           |   |  |
|  |                 | 47<br>48 | $\vdash$     | Н         | $\dashv$ | $\vdash$ | _         | 4         | -         | ert      | $\dashv$     | <u> </u> |          | 97<br>98 | $\vdash$                | $\dashv$ | $\dashv$ | $\dashv$       | +            | -            | +        | -                      |     | <u> </u> | 147<br>148                              |                 | 4            | +           | $\perp$      | $\perp$      | ₽. | $\vdash$ | $\sqcup$  |   |  |
|  |                 | +0       |              | $\Box$    |          |          |           | _         |           | $\sqcup$ |              | <u> </u> |          | 30       | ш                       |          |          |                |              |              | L_       | _L.                    | 1   | L        | 140                                     |                 | L            |             |              |              |    | 1        |           |   |  |